

**United States Environmental Protection Agency  
Region 7  
901 N. 5th Street  
Kansas City, KS 66101**

**Date:** OCT 02 2009

**Subject:** Transmittal of Sample Analysis Results for ASR #: 4629

Project ID: BMA78K

Project Description: Washington County Lead District - Old Mines area

**From:** Michael F. Davis, Chief   
Chemical Analysis and Response Branch, Environmental Services Division

**To:** Bruce Morrison  
SUPR/FFSE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

40325846



Superfund

**Project Manager:** Bruce Morrison

**Org:** SUPR/FFSE

**Phone:** 913-551-7755

**Project ID:** BMA78K

**Project Desc:** Washington County Lead District - Old Mines area

**Location:** Potosi

**State:** Missouri

**Program:** Superfund

**Site Name:** WASHINGTON COUNTY LEAD DISTRICT - OLD MINES  
- SITEWIDE

**Site ID:** A78K **Site OU:** 00

**GPRA PRC:** 302DC6C

**Purpose:** Site Characterization

Old mines area has a child with an elevated blood Pb level.

**Explanation of Codes, Units and Qualifiers used on this report**

**Sample QC Codes:** QC Codes identify the type of sample for quality control purpose.

**Units:** Specific units in which results are reported.

\_\_\_ = Field Sample

ug/L = Micrograms per Liter

**Data Qualifiers:** Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank)= Values have been reviewed and found acceptable for use.

U = The analyte was not detected at or above the reporting limit.

**ASR Number:** 4629

**Sample Information Summary**

**10/02/2009**

**Project ID:** BMA78K

**Project Desc:** Washington County Lead District - Old Mines area

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -	___	Water	31057 - Outside, unpurged		09/08/2009	13:05			09/11/2009
2 -	___	Water	31057 - Outside, purged		09/08/2009	13:10			09/11/2009
3 -	___	Water	31057 - Inside, unpurged (filtered)		09/08/2009	13:15			09/11/2009
4 -	___	Water	31057 - Inside, purged (filtered)		09/08/2009	13:20			09/11/2009

**ASR Number:** 4629

**RLAB Approved Analysis Comments**

**10/02/2009**

**Project ID:** BMA78K

**Project Desc** Washington County Lead District - Old Mines area

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Analysis	Comments About Results For This Analysis
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1 Metals in Water by ICP/MS

**Lab:** Region 7 ESAT Contract Lab (In-House)

**Method:** EPA Region 7 RLAB Method 3123.1C

**Samples:** 1-\_\_ 2-\_\_ 3-\_\_ 4-\_\_

**Comments:**

(N/A)

**ASR Number:** 4629

**RLAB Approved Sample Analysis Results**

**10/02/2009**

**Project ID:** BMA78K

**Project Desc:** Washington County Lead District - Old Mines area

<b>Analysis/ Analyte</b>	<b>Units</b>	<b>1-__</b>	<b>2-__</b>	<b>3-__</b>	<b>4-__</b>
<b>1 Metals in Water by ICP/MS</b>					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	31.7	24.6	24.3	24.3
Cadmium	ug/L	7.8	7.5	8.3	7.8
Lead	ug/L	18.7	15.6	7.7	9.0

ASR 4629

CHAIN OF CUSTODY RECORD  
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print) <u>Bruce Morrison</u>	NAME OF SURVEY OR ACTIVITY <u>WCLD-Old Mines</u>	DATE OF COLLECTION <u>10</u> <u>09</u> <u>99</u> DAY MONTH YEAR	SHEET <u>1</u> of <u>1</u>
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## CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS				SAMPLED MEDIA				RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)		
	<u>16</u> CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment		dust	other
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
<u>4629-1</u>	<u>1</u>						<u>X</u>				<u>Metals in letter by ICP/MS</u>
<u>-2</u>	<u>1</u>						<u>X</u>				
<u>-3</u>	<u>1</u>						<u>X</u>				
<u>-4</u>	<u>1</u>						<u>X</u>				
<u>ASB Complete</u> <u>9-10-99</u>											
<u>Chr. Temp. Rec'd.</u> <u>bet 0-1°C</u> <u>9/11/99</u>											

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
<u>4</u> PIECE(S) CONSISTING OF _____ BOX(ES)	<u>X</u> COMMERCIAL CARRIER: <u>Fedex</u>
<u>1</u> ICE CHEST(S); OTHER _____	____ COURIER
	____ SAMPLER CONVEYED
	<u>7969 3222 5461</u> (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD				<u>9/11/99</u>	
RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<u>[Signature]</u>	<u>9/10/99</u>	<u>1100</u>	<u>[Signature]</u>	<u>Analysis</u>	
<input checked="" type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input checked="" type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		

# Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 4629 Sample Number: 1 QC Code: \_\_\_ Matrix: Water Tag ID: 4629-1-\_\_\_

Project ID: BMA78K Project Manager: Bruce Morrison  
Project Desc: Washington County Lead District - Old Mines area  
City: Potosi State: Missouri  
Program: Superfund  
Site Name: WASHINGTON COUNTY LEAD DISTRICT - OLD MINES - Site ID: A78K Site OU: 00  
SITEWIDE

Location Desc: Outside, unpurged

External Sample Number: 31057

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: \_\_\_ Sample Collection: Start: \_\_\_/\_\_\_/\_\_\_  
Longitude: \_\_\_ End: 9/8/09 13:05

## Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

## Sample Comments:

(N/A)

Sample Collected By: GB

# Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 4629 Sample Number: 2 QC Code: \_\_\_ Matrix: Water Tag ID: 4629-2-\_\_\_

Project ID: BMA78K Project Manager: Bruce Morrison  
Project Desc: Washington County Lead District - Old Mines area  
City: Potosi State: Missouri  
Program: Superfund  
Site Name: WASHINGTON COUNTY LEAD DISTRICT - OLD MINES - Site ID: A78K Site OU: 00  
SITEWIDE

Location Desc: Outside, furred

External Sample Number: 31057

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: \_\_\_

Sample Collection: Start: \_\_\_/\_\_\_/\_\_\_

Longitude: \_\_\_

End: 2/8/09 13:10

## Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

## Sample Comments:

(N/A)

Sample Collected By: GB



# Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 4629 Sample Number: 3 QC Code: \_\_\_ Matrix: Water Tag ID: 4629-3-\_\_\_

Project ID: BMA78K Project Manager: Bruce Morrison  
Project Desc: Washington County Lead District - Old Mines area  
City: Potosi State: Missouri  
Program: Superfund  
Site Name: WASHINGTON COUNTY LEAD DISTRICT - OLD MINES - Site ID: A78K Site OU: 00  
SITEWIDE

Location Desc: Inside, unpurged, filtered

External Sample Number: 3057

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: \_\_\_

Sample Collection: Start: 1/1

Longitude: \_\_\_

End: 9/18/09 13:15

## Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

## Sample Comments:

(N/A)

Sample Collected By: GB

# Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 4629 Sample Number: 4 QC Code: \_\_\_ Matrix: Water Tag ID: 4629-4-\_\_\_

Project ID: BMA78K Project Manager: Bruce Morrison  
Project Desc: Washington County Lead District - Old Mines area  
City: Potosi State: Missouri  
Program: Superfund  
Site Name: WASHINGTON COUNTY LEAD DISTRICT - OLD MINES - Site ID: A78K Site OU: 00  
SITEWIDE

Location Desc: Inside, purged, filtered

External Sample Number: 31057

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: \_\_\_

Sample Collection: Start: \_\_\_/\_\_\_/\_\_\_

Longitude: \_\_\_

End: 9/8/09 13:20

## Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

## Sample Comments:

(N/A)

Sample Collected By: GB